## IN THE CLAIMS

Please amend Claims 1, 3, 7, 8 and 17.

Please cancel Claims 2, 4, 5, 6, 11, 12, 13, 14, 15 and 16.

## What is claimed is:

- 1. (Currently Amended) A heater comprising:
  - (a) an induction chamber provided with an inlet;
  - (b) a combustion chamber in fluid communication with said inlet of said induction chamber;
  - (c) means for moving an oxidizer from said inlet of said induction chamber to said combustion chamber;
  - (d) a fuel reservoir;
  - (e) a frame defining a fuel passageway;
  - (f) means for moving a fuel from said fuel reservoir through said fuel passageway to said combustion chamber;
  - (g) means in fluid communication with said fuel passageway for shearing a fuel prior to combustion;
  - (h) means in fluid communication with said fuel passageway for heating a fuel prior to combustion; and
  - (i) means for combusting a fuel oxidizer mixture within said combustion chamber;
  - (j) means for maintaining an oxidizer away from a fuel as said fuel is heated with said hearing means;
  - (k) wherein said hearing means is a shell in fluid communication with said fuel passageway and provided with means for allowing a heated fuel to excape from said shell;
  - (1) means for rotating said shell; and

- (m) a propeller secured to said shell.
- 2. (Cancelled) The heater of Claim 1, further comprising means for maintaining an oxidizer away from a fuel as said fuel is heated with said heating means.
- 3. (Currently Amended) The heater of Claim 21, wherein said heating means is means for heating fuel to a temperature in excess of 500 degrees Celsius.
- 4. (Cancelled) The heater of Claim 2, wherein said heating means is a shell in fluid communication with said fuel passageway and provided with means for allowing a heated fuel to escape from said shell.
- 5. (Cancelled) The heater of Claim 4, further comprising means for rotating said shell.
- 6. (Cancelled) The heater of Claim 5, further comprising a propeller secured to said shell.
- 7. (Currently Amended) The heater of Claim 61, wherein said spinning means and propellers are operably coupled to said shell in a manner which forces a fluid coming into contact with said propeller over said shearing means.
  - 8. (Currently Amended) A heater comprising:
    - (a) an induction chamber provided with an inlet;
    - (b) a combustion chamber in fluid communication with said inlet of said induction chamber;
    - (c) means for moving an oxidizer from said inlet of said induction chamber to said combustion chamber;
    - (d) a fuel reservoir;
    - (e) a frame defining a fuel passageway;

- (f) means for moving a fuel from said fuel reservoir through said fuel passageway to said combustion chamber;
- (g) means in fluid communication with said fuel passageway for shearing a fuel prior to combustionThe heater of Claim 1;
- (h) wherein said shearing means is a shear and means coupled to said shear for directing said shear across a first concentration of fuel having a first surface area in a manner which divides said first concentration of fuel into a second concentration of fuel having a second surface area, and a third concentration of fuel having a third surface area, wherein the total surface area of said second surface area and said third surface area is greater than said first surface area
- (i) means in fluid communication with said fuel passageway for hearing a fuel prior to combustion; and
- (j) means for combusting a fuel oxidizer mixture within said combustion chamber.
- 9. (Original) The heater of Claim 8, wherein said heating means is a shell in fluid communication with said fuel passageway and wherein said shear is a perimeter of an aperture provided in said shell.
- 10. (Original) The heater of Claim 9, wherein said moving means is a propeller secured to said shell.
- 11. (Cancelled) The heater of Claim 1, further comprising means for pressurizing a fuel and oxidizer mixture within said combustion chamber.

- 12. (Cancelled) The heater of Claim 11, wherein said pressurizing means is a diffuser plate, secured over said combustion chamber.
- 13. (Cancelled) The heater of Claim 1, further comprising means for cooling said fuel passageway.
- 14. (Cancelled) The heater of Claim 13, wherein said cooling means is means for circulating a fluid around said frame defining said fuel passageway.
- 15. (Cancelled) The heater of Claim 1, further comprising means for preventing a fluid from exiting said combustion chamber at a rate in excess of \_\_\_\_\_\_ kilometers per hour.
- 16. (Cancelled) The heater of Claim 1, further comprising a hollow heat exchanger, secured for rotatable movement around an outlet of said fuel passageway.

## 17. A heater comprising:

- (a) an induction chamber provided with an inlet;
- (b) a combustion chamber in fluid communication with said inlet of said induction chamber;
- (c) means for moving an oxidizer from said inlet of said induction chamber to said combustion chamber;
- (d) a fuel reservoir;
- (e) a frame defining a fuel passageway;
- (f) means for moving a fuel from said fuel reservoir through said fuel passageway to said combustion chamber;
- (g) means in fluid communication with said fuel passageway for shearing a fuel prior to combustion;

- (h) means in fluid communication with said fuel passageway for heating a fuel prior to combustion; and
- (i) means for combusting a fuel oxidizer mixture within said combustion chamber;
- (j) a hollow heat exchanger, secured for rotatable movement around an outlet of said fuel passageway; and The heater of Claim 17
- (k) means provided within said heat exchanger for dividing waste material into particles sufficiently small to pass through an exhaust port of said heat exchanger.
- 18. (Original) The heater of Claim 17, wherein said dividing means is a ball provided within said heat exchanger.
- 19. (Original) The heater of Claim 17, wherein said heating chamber is provided with a plurality of outlets and wherein a plurality of balls are provided within said heat exchanger.
- 20. (Original) The heater of Claim 19, wherein said heat exchanger is provided with an interior circumference, and wherein a sufficient number of balls are provided so as to substantially cover said circumference when said heat exchanger is rotated.

## 21. (Original) A heater comprising:

- (a) an induction chamber having an inlet and an outlet;
- (b) a combustion chamber having an inlet in fluid communication with said outlet of said induction chamber, said combustion chamber also being provided with an outlet;
- (c) a heat exchanger comprising:
  - (i) an exterior shell defining an interior and an outlet;

- (ii) means provided on said shell for shearing fuel;
- (iii) means coupled to said exterior shell for propelling fluid as said heat exchanger is rotated;
- (d) a fuel reservoir;
- (e) a quill having a first end in fluid communication with said fluid reservoir, and a second end in fluid communication with said interior of said exterior shell of said heat exchanger;
- (f) means coupled to said quill for regulating a flow of fuel through said quill;
- (g) means for producing a back pressure within said combustion chamber;
- (h) means for rotating said heat exchanger at a sufficient speed to draw a fluid into said induction chamber and into said combustion chamber; and
- (i) means for combusting a fuel within said combustion chamber.
- 22. (Original) The heater of Claim 21, further comprising means for attenuating a flow of fluid into said inlet of said induction chamber.
  - 23. (Original) The heater of Claim 22, wherein said attenuating means is a damper.
- 24. (Original) The heater of Claim 21, wherein said propelling means is a propeller secured to said exterior shell of said heat exchanger.
- 25. (Original) The heater of Claim 21, wherein said backpressure producing means is a diffuser plate secured over at least a portion of said combustion chamber.
- 26. (Original) The heater of Claim 21, wherein said combusting means is a spark plug in fluid communication with said combustion chamber.

- 27. (Original) The heater of Claim 21, further comprising means for cooling said quill.
- 28. (Original) The heater of Claim 27, wherein said cooling means is means for circulating a fluid around said quill.
- 29. (Original) The heater of Claim 21, further comprising means provided within said heat exchanger for dividing waste material into particles sufficiently small to pass through said outlet of said heat exchanger.
- 30. (Original) The heater of Claim 29, wherein said dividing means is a ball provided within said heat exchanger.
- 31. (Original) The heater of Claim 30, wherein said heating chamber is provided with a plurality of outlets and wherein a plurality of balls are provided within said heat exchanger.
  - 32. (Original) A combustion heating system comprising:
    - (a) an induction chamber having an inlet and an outlet;
    - (b) means for controlling a flow of fluid through said induction chamber;
    - (c) a combustion chamber having an inlet in fluid communication with said outlet of said induction chamber, said combustion chamber also being provided with an outlet;
    - (d) a diffuser secured over at least a portion of said outlet of said combustion chamber;
    - (e) a turbine provided at least partially within said combustion chamber, said turbine comprising:

- (i) a wall defining an interior cavity and provided with a sidewall defining an aperture through said wall and in fluid communication with said interior cavity;
- (ii) a propeller secured to said wall.
- (f) a quill having an outlet in fluid communication with said interior cavity of said turbine, said quill also being provided with an inlet;
- (g) a fuel reservoir in fluid communication with said inlet of said quill;
- (h) means for regulating a flow of fluid through said quill;
- (i) means for rotating said turbine at a sufficient speed to draw a fluid from said induction chamber into said combustion chamber, and to cause said sidewall of said wall of said turbine to shear a fuel exiting said turbine through said aperture; and
- (j) means in fluid communication with said combustion chamber for combusting a fluid oxidizer mixture within said combustion chamber.

Respectfully submitted,

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